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EXPANDED RANGE

supreme
FASTENERS & COMPONENTS

SHOULDER/INSULATING (TOP HAT) WASHERS

Australia's LEADING SUPPLIER of High Quality Nylon and Other Plastics Fasteners & Components for OVER 50 YEARS.

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METRIC (Millimetres)

NATURAL NYLON

Size	Sleeve OD	ID	Sleeve Length	Head Dia.	Thick	Pack
M4	6.0	4.1	3.0	8.4	1.5	500
	6.0	4.1	4.0	8.4	1.5	
	6.0	4.1	5.0	8.4	1.5	
	6.0	4.1	7.0	8.4	1.5	
	6.0	4.1	9.0	8.4	1.5	
M5	7.0	5.1	3.0	10.2	2.0	500
	7.0	5.1	4.0	10.2	2.0	
	7.0	5.1	5.0	10.2	2.0	
	7.0	5.1	7.0	10.2	2.0	
	7.0	5.1	9.0	10.2	2.0	
	8.0	5.1	3.5	14.0	1.5	500
	8.0	5.1	6.5	14.0	1.5	
	8.0	5.1	13.5	14.0	1.5	
	8.0	5.1	18.5	14.0	1.5	*
	8.0	5.1	23.5	14.0	1.5	
	8.0	5.1	28.5	14.0	1.5	
	8.0	5.1	33.5	14.0	1.5	
M6	8.0	6.1	3.0	12.2	2.0	500
	8.0	6.1	4.0	12.2	2.0	
	8.0	6.1	6.0	12.2	2.0	
	8.0	6.1	8.0	12.2	2.0	
	8.0	6.1	10.0	12.2	2.0	
	8.0	6.1	12.0	12.2	2.0	
	9.0	6.1	3.5	16.0	1.5	
	9.0	6.1	8.5	16.0	1.5	
	9.0	6.1	13.5	16.0	1.5	
	9.0	6.1	18.5	16.0	1.5	
	9.0	6.1	23.5	16.0	1.5	*
	9.0	6.1	28.5	16.0	1.5	
	9.0	6.1	33.5	16.0	1.5	
M8	10.0	8.1	3.0	14.2	2.5	250
	10.0	8.1	4.0	14.2	2.5	
	10.0	8.1	6.0	14.2	2.5	
	10.0	8.1	8.0	14.2	2.5	
	10.0	8.1	10.0	14.2	2.5	
	10.0	8.1	12.0	14.2	2.5	
	11.0	8.1	5.0	20.0	2.0	250
	11.0	8.1	6.0	20.0	2.0	
	11.0	8.1	13.0	20.0	2.0	
	11.0	8.1	18.0	20.0	2.0	
	11.0	8.1	23.0	20.0	2.0	
	11.0	8.1	28.0	20.0	2.0	
	11.0	8.1	33.0	20.0	2.0	
	11.0	8.1	38.0	20.0	2.0	
	11.0	8.1	43.0	20.0	2.0	
	11.0	8.5	3.0	21.0	1.5	

Size	Sleeve OD	ID	Sleeve Length	Head Dia.	Thick	Pack
M10	11.0	10.1	11.0	24.0	2.0	100
	11.2	10.5	12.0	30.0	1.5	
	11.7	10.4	4.0	20.0	2.0	
	11.9	10.5	6.0	20.0	2.0	
	11.9	10.5	10.0	20.0	2.0	
	13.0	10.1	3.0	23.7	2.0	
	13.0	10.1	8.0	23.7	2.0	
	13.0	10.1	10.0	23.7	2.0	
	13.0	10.1	13.0	23.7	2.0	
	13.0	10.1	18.0	23.7	2.0	
	13.0	10.1	23.0	23.7	2.0	
	13.0	10.1	28.0	23.7	2.0	
	13.0	10.1	33.0	23.7	2.0	
	13.0	10.1	38.0	23.7	2.0	
	13.0	10.1	43.0	23.7	2.0	
M12	13.7	12.5	4.0	25.0	2.0	100
	13.8	12.4	18.0	25.0	2.5	
	13.8	12.4	20.0	25.0	2.5	
	13.9	12.1	5.0	25.0	2.0	
	13.9	12.1	6.0	25.0	2.0	
	13.9	12.1	8.0	25.0	2.0	
	13.9	12.5	10.0	25.0	2.0	
	13.9	12.1	12.0	24.0	1.0	
	13.9	12.1	12.5	24.0	2.0	
	14.0	12.2	12.5	24.0	2.0	
	14.8	12.1	2.0	25.6	3.0	
	14.8	12.1	3.0	25.6	2.0	
	14.8	12.1	7.0	25.6	3.0	
	14.8	12.1	8.0	25.6	2.0	
	14.8	12.1	10.0	25.6	2.0	
	14.8	12.1	13.0	25.6	2.0	
	14.8	12.1	18.0	25.6	2.0	
	14.8	12.1	22.0	25.6	3.0	
	14.8	12.1	23.0	25.6	2.0	
	14.8	12.1	28.0	25.6	2.0	
	14.8	12.1	33.0	25.6	2.0	250
	14.8	12.1	38.0	25.6	2.0	
	14.8	12.1	43.0	25.6	2.0	
	14.8	12.1	48.0	25.6	2.0	

SOME SIZES ALSO AVAILABLE IN ACETAL, POLYPROPYLENE AND BLACK GLASS FILLED NYLON – SUBJECT TO MINIMUM ORDER LEVELS.

ITEMS MARKED * MINIMUM ORDER LEVELS APPLY. CONTACT US FOR DETAILS.

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METRIC (Millimetres)

NATURAL NYLON

Size	Sleeve OD	ID	Sleeve Length	Head Dia.	Thick	Pack
M16	**17.9**	**16.5**	**6.0**	**30.0**	**3.0**	100
	17.9	**16.5**	**10.0**	**30.0**	**3.0**	
	17.9	**16.1**	**12.5**	**34.5**	**3.0**	
	18.0	16.1	13.0	26.0	2.0	
	19.0	**16.1**	**2.0**	**34.5**	**3.0**	
	19.0	**16.1**	**3.0**	**34.5**	**3.0**	
	19.0	**16.1**	**5.0**	**34.5**	**3.0**	
	19.0	**16.1**	**7.0**	**34.5**	**3.0**	
	19.0	**16.1**	**10.0**	**34.5**	**3.0**	
	19.0	**16.1**	**12.0**	**34.5**	**3.0**	
	19.0	**16.1**	**15.0**	**34.5**	**3.0**	
	19.0	**16.1**	**17.0**	**34.5**	**3.0**	
	19.0	**16.1**	**22.0**	**34.5**	**3.0**	
	19.0	**16.1**	**27.0**	**34.5**	**3.0**	
	19.0	**16.1**	**32.0**	**34.5**	**3.0**	
	19.0	16.1	37.0	34.5	3.0	
	19.0	16.1	42.0	34.5	3.0	250
	19.0	16.1	47.0	34.5	3.0	
M20	**21.9**	**20.5**	**6.0**	**37.0**	**3.0**	100
	21.9	**20.5**	**10.0**	**37.0**	**3.0**	
	22.0	**20.2**	**5.0**	**36.0**	**2.0**	
	22.0	**20.2**	**12.0**	**36.0**	**2.0**	
	22.0	**20.2**	**15.0**	**36.0**	**2.0**	
	22.0	**20.2**	**17.5**	**36.0**	**2.0**	
	22.0	**20.2**	**20.0**	**36.0**	**2.0**	
	22.2	**20.2**	**22.0**	**35.3**	**3.0**	
	22.2	**20.2**	**28.0**	**36.0**	**3.0**	
M24	**25.9**	**24.1**	**10.0**	**44.0**	**4.0**	50
	26.0	**24.1**	**3.0**	**44.0**	**2.0**	
	26.0	**24.2**	**12.5**	**44.0**	**2.0**	
	26.0	**24.5**	**17.0**	**46.0**	**3.0**	
	26.5	**24.5**	**19.0**	**44.0**	**1.6**	
M27	**32.0**	**28.0**	**20.0**	**40.0**	**3.0**	100
	32.0	**28.0**	**20.0**	**50.0**	**3.0**	
M30	30.5	32.5	34.0	50.0	3.0	50
	33.0	**31.0**	**20.0**	**56.0**	**3.0**	
	33.0	**31.0**	**40.0**	**56.0**	**3.0**	
M33	**37.0**	**34.0**	**20.0**	**60.0**	**2.0**	50
M36	**40.0**	**37.0**	**20.0**	**66.0**	**5.0**	50
M39	**43.0**	**40.5**	**25.0**	**66.0**	**5.0**	50

ITEMS MARKED IN BOLD ARE STOCK ITEMS, ALL OTHERS ARE SUBJECT TO MINIMUM ORDER REQUIREMENTS.

BLACK NYLON

Size	Sleeve OD	ID	Sleeve Length	Head Dia.	Thick	Pack
M5	**7.0**	**5.1**	**3.0**	**10.2**	**2.0**	500
	7.0	**5.1**	**4.0**	**10.2**	**2.0**	
	7.0	**5.1**	**5.0**	**10.2**	**2.0**	
	7.0	**5.1**	**7.0**	**10.2**	**2.0**	
	7.0	**5.1**	**9.0**	**10.2**	**2.0**	
M6	**8.0**	**6.1**	**4.0**	**12.2**	**2.0**	500
	8.0	**6.1**	**6.0**	**12.2**	**2.0**	
	8.0	**6.1**	**8.0**	**12.2**	**2.0**	
	8.0	**6.1**	**10.0**	**12.2**	**2.0**	
	8.0	**6.1**	**12.0**	**12.2**	**2.0**	
M8	**10.0**	**8.1**	**3.0**	**14.2**	**2.5**	250
	10.0	**8.1**	**4.0**	**14.2**	**2.5**	
	10.0	**8.1**	**6.0**	**14.2**	**2.5**	
	10.0	**8.1**	**8.0**	**14.2**	**2.5**	
	10.0	**8.1**	**10.0**	**14.2**	**2.5**	
	10.0	**8.1**	**12.0**	**14.2**	**2.5**	
	11.0	**8.1**	**3.0**	**20.0**	**2.0**	
M10	**11.0**	**10.1**	**11.0**	**24.0**	**2.0**	100
	11.2	**10.5**	**12.0**	**30.0**	**1.5**	
	11.2	10.5	15.0	30.0	1.5	
	11.2	10.5	23.0	30.0	1.5	
	11.7	**10.3**	**6.0**	**20.0**	**2.5**	
	11.7	**10.4**	**4.0**	**20.0**	**2.0**	
	11.9	**10.5**	**6.0**	**20.0**	**2.0**	
	11.9	**10.5**	**10.0**	**20.0**	**2.0**	
	13.0	**10.1**	**3.0**	**23.7**	**2.0**	
	13.0	**10.1**	**8.0**	**23.7**	**2.0**	
	13.0	**10.1**	**10.0**	**23.7**	**2.0**	
	13.0	**10.1**	**13.0**	**23.7**	**2.0**	
	13.0	**10.1**	**18.0**	**23.7**	**2.0**	
	13.0	10.1	23.0	23.7	2.0	

NEW

GREY NYLON

ALL ITEMS AVAILABLE IN BLACK NYLON CAN ALSO BE SUPPLIED IN GREY.
SUBJECT TO MINIMUM ORDER QUANTITIES.

SCREW INSULATORS / SHOULDER WASHERS ARE SUITABLE FOR A LARGE VARIETY OF INSULATION AND MECHANICAL APPLICATIONS:

- ISOLATE METAL SCREWS ELECTRICALLY
- THEY SEAL
- REDUCE VIBRATION
- ACT AS SPACERS AND GUIDES

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METRIC (Millimetres)

BLACK NYLON

Size	Sleeve OD	ID	Sleeve Length	Head Dia.	Thick	Pack
	13.7	12.5	4.0	25.0	2.5	
	13.8	12.4	18.0	25.0	2.5	
	13.8	12.4	20.0	25.0	2.5	
	13.9	12.1	5.0	25.0	2.0	
	13.9	12.1	6.0	25.0	2.0	
	13.9	12.1	8.0	25.0	2.0	
	13.9	12.1	10.0	25.0	2.0	
M12	13.9	12.1	12.0	25.0	2.0	**100**
	13.9	12.1	12.5	25.0	2.0	
	14.8	12.1	3.0	25.6	2.0	
	14.8	12.1	7.0	25.6	2.0	
	14.8	12.1	8.0	25.6	2.0	
	14.8	12.1	10.0	25.6	2.0	
	14.8	12.1	13.0	25.6	2.0	
	14.8	12.1	18.0	25.6	2.0	
	17.9	16.1	12.5	34.5	3.0	
	17.9	16.5	6.0	30.0	3.0	
	17.9	16.5	10.0	30.0	3.0	
	18.0	16.1	13.0	26.0	2.0	
	19.0	16.1	2.0	34.5	3.0	
	19.0	16.1	3.0	34.5	3.0	
M16	19.0	16.1	5.0	34.5	3.0	**100**
	19.0	16.1	7.0	34.5	3.0	
	19.0	16.1	10.0	34.5	3.0	
	19.0	16.1	12.0	34.5	3.0	
	19.0	16.1	15.0	34.5	3.0	
	19.0	16.1	17.0	34.5	3.0	
	19.0	16.1	22.0	34.5	3.0	

Size	Sleeve OD	ID	Sleeve Length	Head Dia.	Thick	Pack
	21.9	20.5	6.0	37.0	3.0	
	21.9	20.5	10.0	37.0	3.0	
	22.0	20.2	5.0	36.0	2.0	
	22.0	20.2	12.0	36.0	2.0	
M20	22.0	20.2	15.0	36.0	2.0	**100**
	22.0	20.2	17.5	36.0	2.0	
	22.0	20.2	20.0	36.0	2.0	
	22.0	20.2	22.0	35.3	3.0	
	22.0	20.2	28.0	36.0	3.0	
	25.9	24.1	10.0	44.4	4.0	
	26.0	24.1	3.0	44.0	2.0	
M24	26.0	24.2	12.5	44.0	2.0	**100**
	26.0	24.5	17.0	46.0	3.0	
	26.5	24.5	19.0	44.0	1.6	
M27	32.0	28.0	20.0	40.0	3.0	*
	32.0	28.0	20.0	50.0	3.0	
M30	33.0	31.0	20.0	56.0	3.0	**100**
	33.0	31.0	40.0	56.0	3.0	
M33	37.0	34.0	20.0	60.0	2.0	**100**
M36	40.0	37.0	20.0	66.0	5.0	**100**
M39	43.0	40.5	25.0	66.0	5.0	*

**OTHER SIZES ARE ALSO AVAILABLE.
CONTACT US FOR DETAILS.**

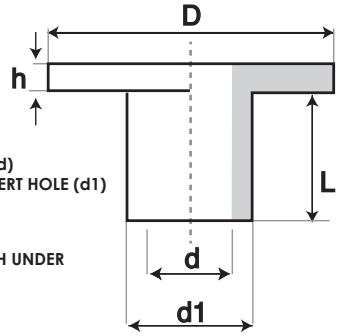
ITEMS MARKED IN BOLD ARE STOCK ITEMS, ALL OTHERS ARE SUBJECT TO MINIMUM ORDER REQUIREMENTS.

SCREWS INSULATORS / SHOULDER (TOP HAT) WASHERS HAVE FIVE (5) MEASUREMENTS THAT NEED TO BE INCLUDED WHEN YOU ARE ORDERING:

HEAD = WIDTH OF OUTER FLANGE (D)

ID = INNER DIAMETER, SCREW / BOLT SIZE (d)
SLEEVE OD = OUTER DIAMETER, SIZE OF INSERT HOLE (d1)

THICK = THICKNESS OF FLANGE (h)
SLEEVE LENGTH = DEPTH REQUIRED/ LENGTH UNDER WASHER (L)



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"FOR ALL YOUR SPECIAL FASTENING NEEDS"